

Amendment
Application No. 10/532,059
Attorney Docket No. 052453

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions of claims in the application.

1. (Currently amended): A polarizer composed of a film comprising a structure in which fine metallic particles is dispersed in a polymer matrix,

wherein a polymer forming the polymer matrix is a translucent polymer having a light transmittance of 88% or more when measured thereof with a thickness of 1 mm and the film is uniaxially stretched, and

a domain formed with fine metallic particles has an average particle diameter of 100 nm or less and an aspect ratio (a ratio of a maximum length/a minimum length) of 2 or less.

2. Cancelled.

3. (Currently amended): A fabrication method for the polarizer according to claim 1, comprising steps of: forming a film with a mixed solution comprising fine metallic particles obtained by dispersing fine metallic particles in a solution containing a translucent polymer having a light transmittance of 88% or more when measured thereof with a thickness of 1 mm and thereafter, uniaxially stretching the film.

4. (Currently amended): A polarizer in which fine metallic particles is dispersed in a matrix formed with a liquid crystalline material, wherein a domain formed with fine metallic

Amendment

Application No. 10/532,059

Attorney Docket No. 052453

particles has an average particle diameter of 100 nm or less and an aspect ratio (a ratio of a maximum length/a minimum length) of 2 or less.

5. (Original): The polarizer according to claim 4, wherein the liquid crystalline material is uniaxially aligned.

6. (Previously presented): The polarizer according to claim 4, wherein the liquid crystalline material is a liquid crystal polymer.

7. (Previously presented): The fabrication method for the polarizer according to Claim 4, comprising step of: forming a film with a mixed solution obtained by dispersing fine metallic particles in a solution containing a liquid crystalline material.

8. (Currently amended): A polarizer having composed of a film in which fine metallic particles is dispersed in an organic matrix having a birefringence in the film plane, wherein a domain formed with fine metallic particles has an average particle diameter of 100 nm or less and an aspect ratio (a ratio of a maximum length/a minimum length) of 2 or less, and
the polarizer has an absorption spectrum with an absorption peak at a given wavelength, measured when polarized light incidences thereon,

Amendment

Application No. 10/532,059

Attorney Docket No. 052453

wherein if an azimuth of an incident polarization plane is altered relative to the polarizer, the absorption peak wavelength shifts in accordance with an alteration in the azimuth.

9. (Currently amended): [[A]] ~~The polarizer in which according to claim 8,~~ in a case where an azimuth of the incident polarization plane relative to the polarizer is altered, if an azimuth of the incident polarization plane is 0 degree when an absorption peak wavelength of an absorption spectrum that is measured is the longest wavelength ,which is referred to as λ_1 , by definition,

if an azimuth of the polarization plane is gradually increased from 0 degree, a value of the absorption peak wavelength shifts to the short wavelength side in accordance with the increase and

when an azimuth of the incident polarization plane is 90 degrees, a value of the absorption peak wavelength is the shortest wavelength ,which is referred to as λ_2 , by definition.

10. (Original): The polarizer according to claim 9, satisfying a relation of $(\lambda_1 - \lambda_2) = 10$ to 50 nm.

11. Cancelled.

Amendment

Application No. 10/532,059

Attorney Docket No. 052453

12. (Currently amended): The polarizer according to claim 11, wherein the organic matrix is formed with a polymer matrix, a polymer forming the polymer matrix is a translucent polymer having a light transmittance of 88% or more when measured thereof with a thickness of 1 mm, and the film is a uniaxially stretched.

13. (Original): The polarizer according to claim 11, wherein the organic matrix is formed with a liquid crystalline material.

14. (Original): The polarizer according to claim 13, wherein the liquid crystalline material is uniaxially aligned.

15. (Previously presented): The polarizer according to claim 13, wherein the liquid crystalline material is a liquid crystal polymer.

16. Cancelled.

17. (Previously presented): A polarizing plate in which a transparent protective layer is provided on at least one surface of the polarizer according to claim 1.

Amendment

Application No. 10/532,059

Attorney Docket No. 052453

18. (Previously presented): An optical film comprising one polarizer according to claim 1.

19. (Previously presented): An image display comprising one polarizer according to claim 1.

20. (Previously presented): An optical film comprising the polarizing plate according to claim 17 as a laminate.

21. (Previously presented): An image display comprising the polarizing plate according to claim 17.

22. (Previously presented): An image display comprising the optical film according to claim 18.

23. (New): The polarizer according to claim 1, wherein a content of fine metallic particles dispersed in the matrix is 0.1 to 10 parts by weight relative to 100 parts by weight of the matrix materials.

Amendment

Application No. 10/532,059

Attorney Docket No. 052453

24. (New): The polarizer according to claim 4, wherein a content of fine metallic particles dispersed in the matrix is 0.1 to 10 parts by weight relative to 100 parts by weight of the matrix materials.

25. (New): The polarizer according to claim 8, wherein a content of fine metallic particles dispersed in the matrix is 0.1 to 10 parts by weight relative to 100 parts by weight of the matrix materials.

26. (New): The polarizer according to claim 1, wherein said fine metallic particles are not aligned within the polymer matrix.

27. (New): The polarizer according to claim 4, wherein said fine metallic particles are not aligned within the liquid crystalline material matrix.

28. (New): The polarizer according to claim 8, wherein said fine metallic particles are not aligned with the polymer matrix.